## North American PHEV Demonstration

Fleet Summary Report - Hymotion Prius (V2Green data logger)

Number of vehicles: 85

Reporting Period: April 2009

### All Trips Combined

Overall gasoline fuel economy (mpg)	52	
Total number of trips	6728	
Total distance traveled (mi)	59423	

#### Trips in Charge Depleting (CD) mode \*

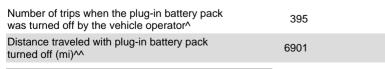
1 3 1 3 7	
Gasoline fuel economy (mpg)	67
Number of trips	3472
Percent of trips city / highway	88.60% / 11.40%
Distance traveled (mi)	16226
Percent of total distance traveled	27.31%

### Trips in combined Charge Depleting and Charge Sustaining (CD/CS) modes\*\*

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Gasoline fuel economy (	mpg)		5	5
Number of trips			703	3
Percent of trips city / high	hway	į	54.20% /	45.80%
Distance traveled (mi)			1538	5
Percent of total distance	traveled		25.8	39%

### Trips in Charge Sustaining (CS) mode \*\*\*

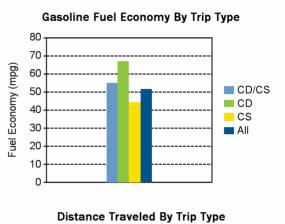
Gasoline fuel economy (mpg)	45
Number of trips	2553
Percent of trips city / highway	73.20% / 26.80%
Distance traveled (mi)	27812
Percent of total distance traveled	46.80%

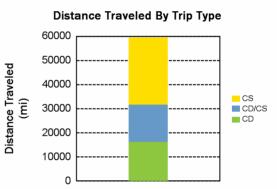


# Vehicle Technologies Program

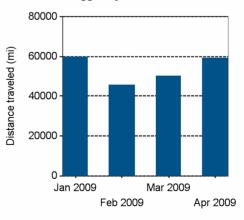
Date range of data received: 4/1/2009 to 4/30/2009

Number of days the vehicles were driven: 30





### Miles Logged by Month This Year



Trips when the plug-in battery pack charge is depleted to propel the vehicle throughout entire trip

<sup>\*\*</sup> Trips when the plug-in battery pack is depleted to propel the vehicle for a portion of the trip, but is fully depleted prior to the end of the trip

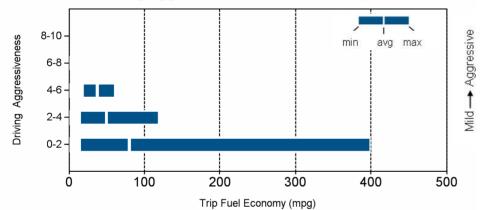
<sup>\*\*\*</sup> Trips when the plug-in battery pack is not used to propel the vehicle - either the plug-in battery is fully depleted before the beginning of the trip, or the plug-in battery pack is turned off

<sup>&</sup>quot;Number of trips with plug-in battery pack turned off by the vehicle operator" is a subset of number of trips in combined CD/CS and CS mode

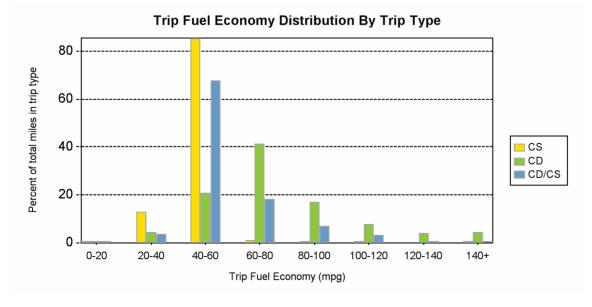
<sup>&</sup>quot;Distance traveled with plug-in battery pack turned off" is a subset of distance traveled in combined CD/CS and CS modes

Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	66	69
Percent of miles in electric-only mode	32.00%	9.00%
Average trip aggressiveness (on scale 0 - 10)	1.1	1.4
Average trip distance (mi)	3.1	16.6
Trips in combined Charge Depleting and Charge Sustaining (CD/CS) modes		
Gasoline fuel economy (mpg)	62	53
Percent of miles in electric-only mode	25.00%	6.00%
Average trip aggressiveness (on scale 0 - 10)	1.6	1.4
Average trip distance (mi)	8.1	38.2
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	40	46
Percent of miles in electric-only mode	22.00%	5.00%
Average trip aggressiveness (on scale 0 - 10)	1.5	1.6
Average trip distance (mi)	4.0	29.8

## **Effect Of Driving Aggressiveness on Fuel Economy This Year**

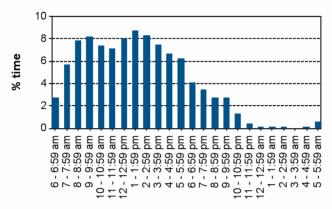


Aggressiveness factor is based on accelerator pedal position. The more time spent during a trip at higher accelerator pedal position, the higher the trip aggressiveness.

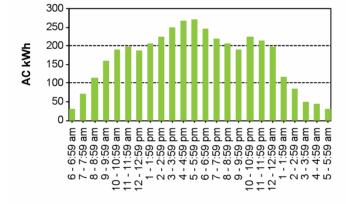


Average number of charging events per vehicle per month when driven	18	
Average number of charging events per vehicle per day when vehicle driven	1.1	
Average distance between charging events	38.7	
Average number of trips between charging events	4.4	
Average duration of charging event (hr) *	16.9	
Average energy per charging event (AC kWh)	2.6	
Average charging energy per vehicle per month (AC kWh)	47.0	
Total number of charging events	1535	
Total charging energy (AC kWh)	3993	

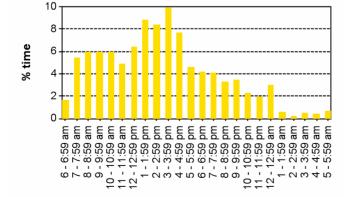




### Time of Day When Charging



### Time at the Start of Charging Events



<sup>\*</sup>Average duration of charging event is the average length of time per charging event when the vehicle was plugged into the electrical grid. Electrical energy was not necessarily drawn during the entire period when the vehicle was plugged in.